

# LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176  
JEFFERSON CITY, MISSOURI 65102  
573-751-4041

## Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

E.T. STOKES

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of  
limestone, sand, and gravel in the state of Missouri. The extent of the

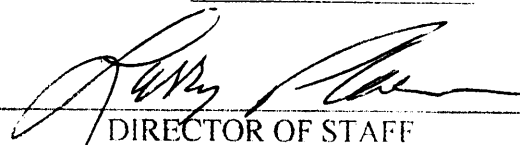
Proposed mining operation(s) will be on eight acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

| County | Section | Township | Range | Acres<br>Renewed | Acres<br>New | Total<br>Acres | Site/Stream<br>Name | Site<br>Number |
|--------|---------|----------|-------|------------------|--------------|----------------|---------------------|----------------|
| Howell | 05      | 23N      | 08W   | 5                | 0            | 5              | Pit #3              | 0538           |
| Howell | 08      | 23N      | 08W   | 3                | 0            | 3              | Pit #4              | 0539           |
|        |         |          |       |                  |              |                |                     |                |
|        |         |          |       |                  |              |                |                     |                |
|        |         |          |       |                  |              |                |                     |                |

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 4th day of March 2004



DIRECTOR OF STAFF  
Land Reclamation Commission

Permit No. 0493

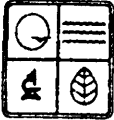
Effective Date 03/04/2004

Expiration Date 02/16/2005

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JAN 22 2004

FEB 19 2004



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND RECLAMATION COMMISSION  
JEFFERSON CITY, MO 64102-0001

|  |                            |   |                          |
|--|----------------------------|---|--------------------------|
| NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL<br><b>E. T. STOKES</b> |                            | DATE<br><b>1-3-2004</b>                 |                          |
| ADDRESS<br><b>P.O. BOX 86</b>  | CITY<br><b>WEST PLAINS</b> | STATE<br><b>MO</b>                      | ZIP CODE<br><b>65775</b> |
| CONTACT PERSON<br><b>E. T. STOKES</b>  |                            | TELEPHONE NUMBER<br><b>417 256 4898</b> |                          |

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

| SITE NAME OR NUMBER<br>(add a separate sheet for additional sites) | Mark each month that the site will be operated during the permit year | For sites operated less than six months per permit year pay \$150<br>For sites operated six months or more per permit year pay \$300 |
|--|---|--|
| 1. <b>251743 &amp; 4</b>   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$ <b>NOT OPERATED</b>   |
| 2.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 3.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 4.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 5.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 6.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 7.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 8.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 9.   | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |
| 10.  | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec            | \$   |

TOTAL SITE FEE **300.00**

2. Acreage Fee \$5 X **8** number of acres bonded **40.00**

3. Annual Permit Fee **\$ 500**

4. Total Fee (Add totals from 1, 2 and 3) **\$ 840.00**

NOTE: If Total Fee exceeds \$2,500.00 then pay only **\$ 2,500**

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee **\$ 300**

|   |                       |                         |
|---|-----------------------|-------------------------|
| SIGNATURE OF APPLICANT<br><b>E. T. Stokes</b> | TITLE<br><b>OWNER</b> | DATE<br><b>1-3-2004</b> |
|---|-----------------------|-------------------------|

Appeared before me this **13<sup>th</sup>** day of **February**, 20 **04**,  
to me personally known, who executed the above as their free acts and deeds.

|                              |  |  |
|------------------------------|--|--|
| NOTARY PUBLIC EMBOSSEER SEAL | STATE OF<br><b>MO</b>  | COUNTY (OR CITY OF ST. LOUIS)<br><b>Hawell</b> |
|                              | SUBSCRIBED AND SWORN BEFORE ME, THIS<br><b>13<sup>th</sup></b> DAY OF <b>February</b> YEAR <b>2004</b> |  |
|                              | NOTARY PUBLIC SIGNATURE<br><b>Betty Lewallen</b>   | MY COMMISSION EXPIRES                          |
|                              | NOTARY PUBLIC NAME (TYPED OR PRINTED)<br><b>Betty Lewallen</b>   |  |

|  |                                |                              |                                   |
|--|--------------------------------|------------------------------|-----------------------------------|
| FOR DEPARTMENT USE ONLY: APPROVED BY<br><b>[Signature]</b> | DATE APPROVED<br><b>2-2-04</b> | PERMIT NUMBER<br><b>0493</b> | EXPIRATION DATE<br><b>2-16-05</b> |
|--|--------------------------------|------------------------------|-----------------------------------|

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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|  |                     |  |                                      |
|--|---------------------|--|--------------------------------------|
| To be completed for each separate area of disturbance associated with mining operations. |                     |  | MISSOURI LAND RECLAMATION COMMISSION |
| SITE NAME OR NUMBER<br>Pit No. 3   |                     | PERMIT NUMBER<br>493                   |                                      |
| COMPANY NAME<br>MOARK QUARRIES INC.  |                     |  |                                      |
| COUNTY<br>Howell   | 1/4 SECTION<br>N1/2 | SECTION<br>5                           |                                      |
| TOWNSHIP<br>23N  | RANGE<br>8W         | ACRES<br>146                           |                                      |
| RIVER OR STREAM NAME (FOR IN-STREAM ACRES)   |                     |  |                                      |
| MINERAL COMMODITY<br>Limestone   |                     | ESTIMATED TONS/YEAR (FOR GRAVEL SITES) |                                      |

|  |                   |                                  |
|--|-------------------|----------------------------------|
| NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)<br>Eddie Lawrence   |                   |                                  |
| ADDRESS<br>Route 17  |                   |                                  |
| CITY<br>West Plains  | STATE<br>Missouri | ZIP CODE<br>65775                |
| SOURCE OF RIGHT TO MINE (CHECK ONE):<br><input type="checkbox"/> MINERAL DEED<br><input type="checkbox"/> WARRANTY DEED<br><input type="checkbox"/> OTHER(DESCRIBE): |                   | DATE OF AGREEMENT<br>February-95 |
| <input checked="" type="checkbox"/> LEASE<br><input type="checkbox"/> VERBAL AGREEMENT   |                   |                                  |

|  |                   |                                  |
|--|-------------------|----------------------------------|
| MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)<br>Eddie Lawrence  |                   |                                  |
| ADDRESS<br>Route 17  |                   |                                  |
| CITY<br>West Plains  | STATE<br>Missouri | ZIP CODE<br>65775                |
| SOURCE OF RIGHT TO MINE (CHECK ONE):<br><input type="checkbox"/> MINERAL DEED<br><input type="checkbox"/> WARRANTY DEED<br><input type="checkbox"/> OTHER(DESCRIBE): |                   | DATE OF AGREEMENT<br>February-95 |
| <input checked="" type="checkbox"/> LEASE<br><input type="checkbox"/> VERBAL AGREEMENT   |                   |                                  |

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

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Missouri Department Of Natural Resources  
Land Reclamation Program

P.O. Box 176

Jefferson City, MO 65102

MISSOURI LAND  
RECLAMATION COMMISSION

**Mine Plan**

|   |   |
|---|---|
| <input type="checkbox"/> Short Term, For One Permit Year  |   |
| <input checked="" type="checkbox"/> Long Term, For Period Through Date: <u>2020 2070 APR 5/1 phase w et. stakes</u>   |   |
| Description of Site Prior to Land Reclamation Commission Permitting (By Applicant or Prior Operator), Including Soil, Vegetation and Topography.  |   |
| <p>This long term plan covers an area that is steeply sloping with very thin, rocky soil. The long term plan covers approximately 146 acres. The area is bordered to the north by County Road 8620 and on the south by County Road 8270.</p>  |   |
| <b>Operational Plan- 10 CSR 10-10.020(2)(D)1.</b>   |   |
| <b>A. Topsoil</b>   |   |
| Average Depth of Topsoil, Prior to Land Reclamation Commission Permitting<br><u>3</u> inches  | Is Topsoil to be Sold or Discarded Offsite?<br><input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Describe Methods and Equipment Used for Topsoil Removal   |   |
| <p>After trees are cleared with dozers, the top 12 inches of soil will be removed by scraper and loaders and dump trucks. Because the topsoil is only 3 inches deep, an additional 9 inches of subsoil will be removed to obtain a total of 12 inches of soil for replacement. Topsoil removal will be completed during the summer for the areas to be mined the following year. Topsoil removal will be kept at least 20 feet ahead of pit excavation.</p> |   |
| Describe Methods and Equipment Used for Topsoil Removal   |   |
| <p>The scrapers, loaders and dump trucks will deposit the soil in stockpiles near the pit area. The stockpiles will be shaped and seeded with grass to protect from erosion.</p>  |   |

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MISSOURI LAND  
RECLAMATION COMMISSION**B. Spoil**

Describe Methods and Locations of Spoil Placement:

All overburden removed from the pit will be placed against the highwall of the mined-out portion of the pit and graded to traversable slopes (3:1) before topsoil is replaced.

**C. Acid Materials**

Describe Methods and Equipment Used for Handling Acid Material (If None is Anticipated, Write "None" Below)

None

**D. Information (Give All Dimensions in Feet)**

Describe Location and Orientation of Pit, If Not Clear on Site Maps

The first cut will be in the east corner of the permit. From there the pit will advance to the west. As the pit nears the west edge of the property, a protective berm will be constructed of large boulders (minimum of 3 ft. in diameter) along the west property line.

Yes No

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**A. Revegetation** (Attach additional sheets, if needed)

|                     |   |   |
|---------------------|---|---|
| Revegetation Mix #1 | Purpose Or Land Use<br>Agricultural (pasture) | Seeding Or Planting Time<br>Spring (March 15 to May 15) |
|---------------------|---|---|

**Describe Methods and Equipment to be Used for Seeding or Planting**

During the first spring following topsoil replacement the seed mix will be broadcast and harrowed.

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| Seeded Species | Pounds/Acre | Tree or Shrub Species | Stems/Acre |
|----------------|-------------|-----------------------|------------|
| Orchardgrass   | 30          |                       |            |
| Red Clover     | 10          |                       |            |

|                     |                                |   |
|---------------------|--------------------------------|---|
| Revegetation Mix #2 | Purpose Or Land Use<br>Pasture | Seeding Or Planting Time<br>Spring (March 15 to May 15) |
|---------------------|--------------------------------|---|

**Describe Methods and Equipment to be Used for Seeding or Planting**

During the first spring following topsoil replacement the seed mix will be broadcast and harrowed. Reseeding will be done as needed to achieve grass cover sufficient to control erosion and to support pasture.

| Seeded Species | Pounds/Acre | Tree or Shrub Species | Stems/Acre |
|----------------|-------------|-----------------------|------------|
| Orchardgrass   | 15          |                       |            |
| Fescue         | 15          |                       |            |
| Alfalfa        | 10          |                       |            |

Attach Additional Sheets For Additional Seed Mixes

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|  |         |
|--|---------|
| Describe Proposed Reclaimed Topography, Including Slopes<br><br>All spoil areas will be graded to slopes of 3:1.<br><br>As the active pit approaches a property line, appropriate permanent barriers to limit trespass will be constructed. These barriers will range from a 4-wire barbwire fence to a large berm with a non-traversable outer slope. If the berm is constructed the drawing included with this plan will be followed with necessary modifications due to topography. All berms will be covered with topsoil or the best available material. The outer slope will be vegetated or covered with material that will not erode.<br><br>The decision as to the type of barriers constructed will be based on the circumstances that exist at the time the highwall approaches closer than 300 feet to the property line and advice from legal and liability insurance professionals retained by the company.<br><br>All perimeter barriers will be permanent. | Site 03 |
|--|---------|

**C. Describe The General Sequence and Timing of the Following Activities**

**Grading**  
 Grading will be done as the pit advances and as spoil is placed in the mined out portions. Final grading will be completed within one year of permit expiration on all mined-out portions.

**Replacement of Topsoil**  
 Topsoil will be replaced to a uniform depth of 12 inches, and disked to reduce compaction. Topsoil will be replaced within one year of permit expiration on all mined-out portions.

**Revegetation**  
 All topsoil areas will be seeded during the first optimum seeding period following topsoil replacement.

**Average Depth of Replaced Topsoil (Inches)**  
 Three inches topsoil plus nine inches of subsoil for a total of twelve inches.

| <b>D. Use of Land When Reclaimed</b>                            | <b>Estimated Acres:</b> |
|---|-------------------------|
| Estimated acreage of each land use below, after reclamation     |                         |
| Wildlife (forest or other habitat with livestock excluded)      |                         |
| Agriculture (pasture, cropland, and horticultural)              |                         |
| Development (residential, industrial, and recreational)         | 146                     |
| Water Impoundments (for wildlife, agricultural, or development) |                         |

PIT #

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## By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Section 444.760 through 444.789, RSMo, and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

ETS  
WILL MAINTAIN 3 FT NOVEN WIRE  
ON BOTTOM PLUS 2 STRAND 4 POINT  
BARB WIRE ON TOP TOTAL HEIGHT  
OF 4 FT MINIMUM

OR

COMPLY WITH INCLOSED DRAWING  
#10 CSR-40-10 0.50(5)(B)5 & MSHA  
REQUIRED 30 CFR 56.3131

|   |   |                                 |                               |
|---|---|---------------------------------|-------------------------------|
| Signature of Applicant<br><i>E. L. Stater</i>                 |   | Title<br><i>President</i>       | Date<br><i>1-10-01</i>        |
| Notary Public Embosser Seal                                   | State<br><i>Missouri</i>  |                                 | County (Or City of St. Louis) |
|   | Subscribed and Sworn Before me, This<br><i>10<sup>th</sup></i> Day Of <i>January</i> 20 <i>01</i> |                                 | Use Rubber Stamp Below        |
|   | Notary Public Signature<br><i>Betty Lewallen</i>  | My Commission Expires           |                               |
|   | Notary Public Name (Typed or Printed)<br><i>Betty Lewallen</i>                                    |                                 |                               |
| Approved By (Director's Representative)<br><i>[Signature]</i> |   | Date Approved<br><i>4-24-01</i> | Permit Number<br><i>0493</i>  |

MO 780-1327 (12-91)

Site #3

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Page 5 of 5

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MISSOURI  
FICA

# type drawing of perimeter berm.

To limit trespass and promote safety  
Total width of perimeter control, 80 feet  
10 CSR 40-10.050(5)(B)5

MSHA required: 30 CFR 56.3131

"loose or unconsolidated material  
shall be sloped to the angle  
of repose or stripped back at  
least 10 feet from the top  
of the pit or quarry wall."

Row of 2 to 3 foot diameter boulders.

2:1 slope, graded.

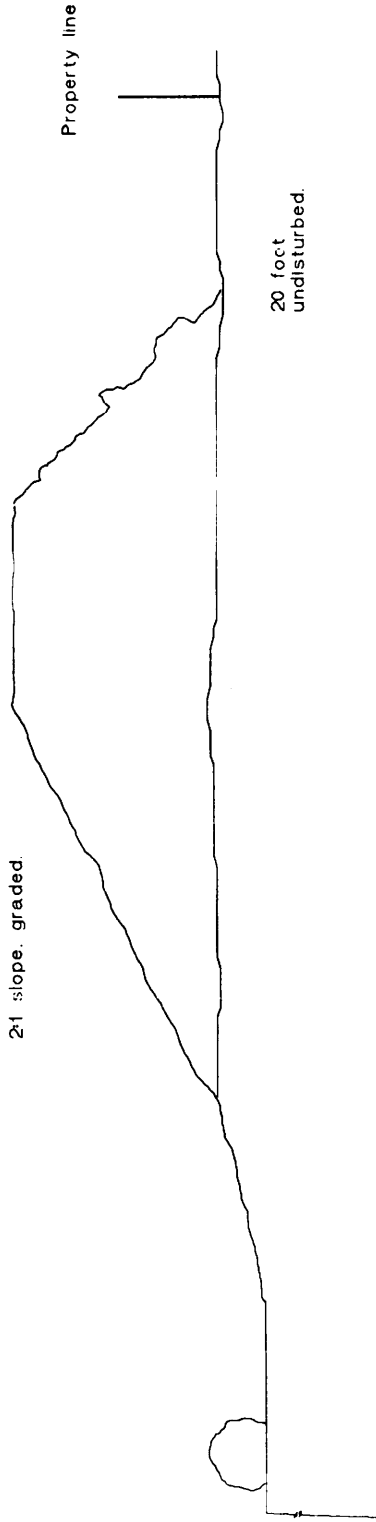
10 foot wide  
and traversable

Angle of repose.  
Rough.  
Exposed boulders.

Property line

20 foot  
undisturbed.

Sloped overburden  
material, 10 feet wide.



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**MAPQUEST**

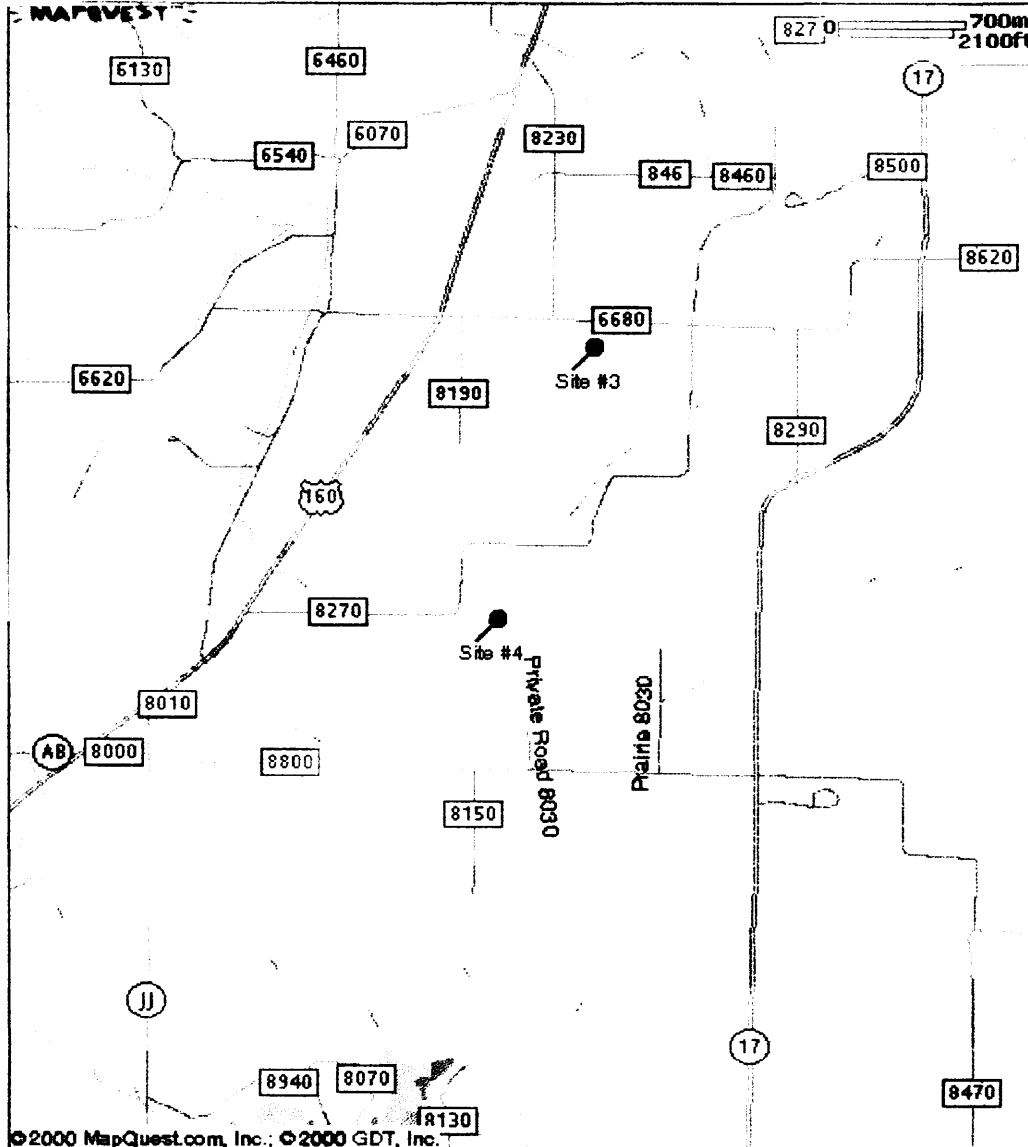
WWW.MAPQUEST.COM

Send to printer

MISSOURI LAND  
RECLAMATION COMMISSION

Print Options

Moark Quarries, Inc.



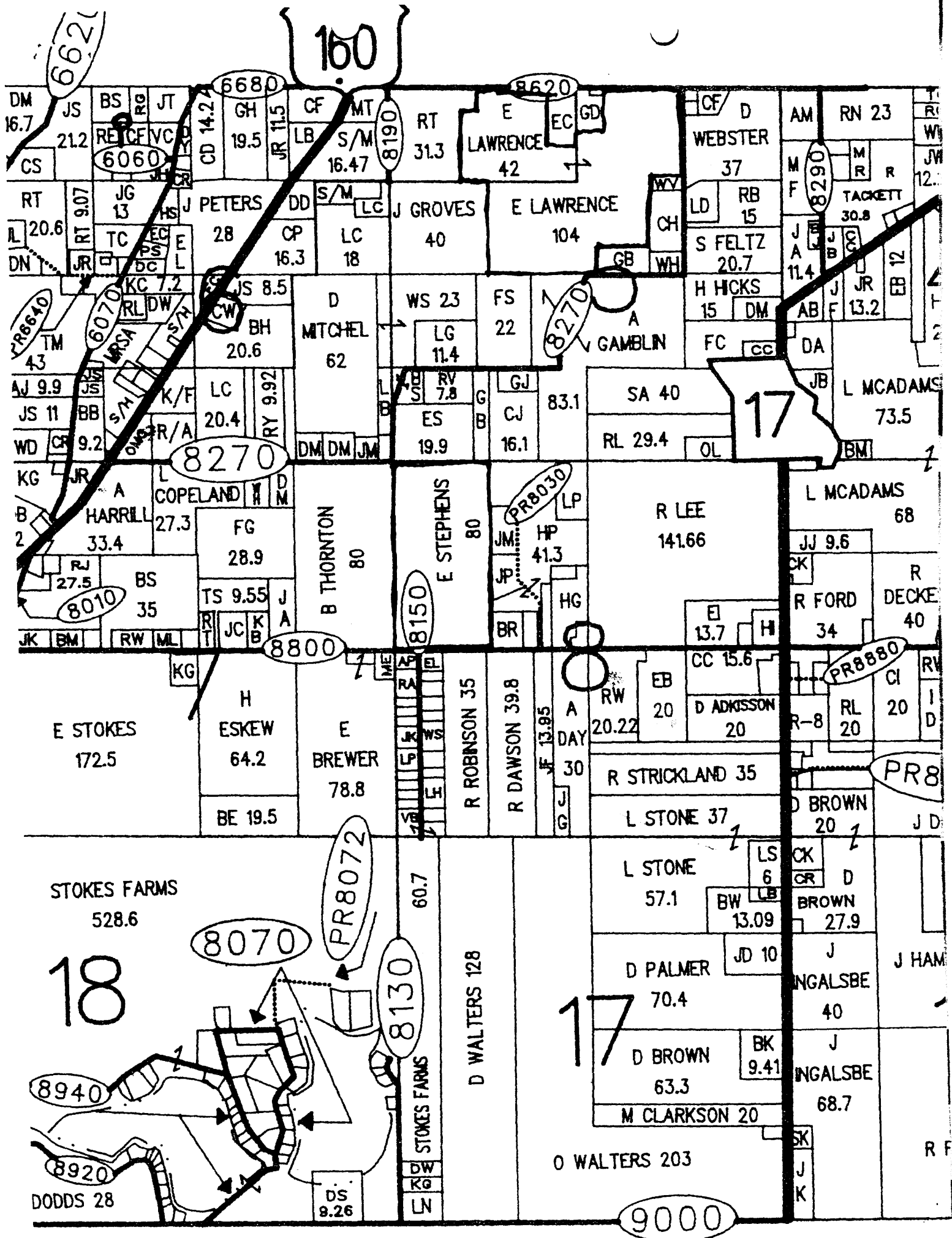
Please drive safely  
this Holiday season

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146 Ac.  
5 Ac.

Long Term Plan  
Bonded Area  
Stripped  
Active Pit  
Topsoil Stockpile / Ac.  
SCALE  
500 Feet

Entire 146 acres in long term plan

Moark Quarries, Inc.  
NE1/4 & NW1/4 Sec05 T23N R08W  
Howell County

Site #3

Map modified 01/2001 by R. Crawley

8620

Lawrence  
146 Ac.

8250

8270

4 Ac.



N



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

**SITE INFORMATION FORM**

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|  |                   |  |
|--|-------------------|--|
| To be completed for each separate area of disturbance associated with mining operations. |                   |  |
| SITE NAME OR NUMBER<br>Pit No. 4   |                   | PERMIT NUMBER<br>493                   |
| COMPANY NAME<br><del>Rock Products of Howell County</del> <i>MoArk Quarries Inc</i>      |                   |  |
| COUNTY<br>Howell   | 1/4 SECTION<br>NW | SECTION<br>8                           |
| TOWNSHIP<br>23N  | RANGE<br>8W       | ACRES<br>80                            |
| RIVER OR STREAM NAME (FOR IN-STREAM ACRES)   |                   |  |
| MINERAL COMMODITY<br>Gravel  |                   | ESTIMATED TONS/YEAR (FOR GRAVEL SITES) |

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|  |                   |  |
|--|-------------------|--|
| NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)<br>Dean Stephens  |                   |  |
| ADDRESS<br>10098 County Road 8270  |                   |  |
| CITY<br>West Plains  | STATE<br>Missouri | ZIP CODE<br>65775  |
| SOURCE OF RIGHT TO MINE (CHECK ONE):<br><input type="checkbox"/> MINERAL DEED<br><input type="checkbox"/> WARRANTY DEED<br><input type="checkbox"/> OTHER(DESCRIBE): |                   | DATE OF AGREEMENT<br>June-96   |
|  |                   | <input checked="" type="checkbox"/> LEASE<br><input type="checkbox"/> VERBAL AGREEMENT |

|  |                   |  |
|--|-------------------|--|
| MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)<br>Dean Stephens   |                   |  |
| ADDRESS<br>10098 County Road 8270  |                   |  |
| CITY<br>West Plains  | STATE<br>Missouri | ZIP CODE<br>65775  |
| SOURCE OF RIGHT TO MINE (CHECK ONE):<br><input type="checkbox"/> MINERAL DEED<br><input type="checkbox"/> WARRANTY DEED<br><input type="checkbox"/> OTHER(DESCRIBE): |                   | DATE OF AGREEMENT<br>June-96   |
|  |                   | <input checked="" type="checkbox"/> LEASE<br><input type="checkbox"/> VERBAL AGREEMENT |

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

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Missouri Department Of Natural Resources  
Land Reclamation Program

P.O. Box 176  
Jefferson City, MO 65102

MISSOURI LAND

**Mine Plan**
☐ Short Term, For One Permit Year

☒ Long Term, For Period Through Date: 2-23-2001 ~~2020~~ 2070 ETS

Description of Site Prior to Land Reclamation Commission Permitting (By Applicant or Prior Operator), Including Soil Vegetation and Topography.

This long term plan covers an area that is steeply sloping with very thin, rocky soil. The long term plan covers approximately 80 acres. The area is bordered to the west by County Road 827 and on the south by County Road 880.

**Operational Plan-10 CSR 40-10.020(2)(D)1.****Topsoil**

Average Depth of Topsoil, Prior to Land Reclamation Commission Permitting  
3 Inches

Is Topsoil to be Sold or Discarded Offsite?

☐ Yes or ☒ No

Describe Methods and Equipment Used for Topsoil Removal

After trees are cleared with dozers, the top 12 inches (or all available if less) of soil will be removed by scraper and loaders and dump trucks. Because the topsoil is only 3 inches deep, an additional 9 inches of subsoil will be removed to obtain a total of 12 inches of soil for replacement. Topsoil removal will be completed during the summer for the areas to be mined the following year. Topsoil removal will be kept at least 20 feet ahead of pit excavation.

Describe Methods and Equipment Used for Topsoil Removal

The scrapers, loaders and dump trucks will deposit the soil in stockpiles near the pit area. The stockpiles will be shaped and seeded with grass to protect from erosion.

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**Describe Methods and Locations of Spoil**

All overburden removed from the pit will be placed against the highwall of the mined-out portion of the pit and graded to traversable slopes (3:1) before topsoil is replaced.

**C. Acid Materials**

Describe Methods and Equipment Used for Handling Acid Material (If None is Anticipated, Write "None" Below)

None

**D. Pit Information (Give All Dimensions in Feet)**

Describe Location and Orientation of Pit, If Not Clear on Site Maps

The first cut will be in the center of the permit. From there the pit will advance to the edge of gravel.

Yes No

☐
☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐
☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

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Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

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**A. Revegetation** (Attach additional sheets, if needed)

|                     |   |   |
|---------------------|---|---|
| Revegetation Mix #1 | Purpose Or Land Use<br>Agricultural (pasture) | Seeding Or Planting Time<br>Spring (March 15 to May 15) |
|---------------------|---|---|

**Describe Methods and Equipment to be Used for Seeding or Planting**

During the first spring following topsoil replacement the seed mix will be broadcast and harrowed.

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| Seeded Species | Pounds/Acre | Tree or Shrub Species | Stems/Acre |
|----------------|-------------|-----------------------|------------|
| Orchardgrass   | 30          |                       |            |
| Red Clover     | 10          |                       |            |
| Fescue         | 15          |                       |            |

|                     |                                |   |
|---------------------|--------------------------------|---|
| Revegetation Mix #2 | Purpose Or Land Use<br>Pasture | Seeding Or Planting Time<br>Spring (March 15 to May 15) |
|---------------------|--------------------------------|---|

**Describe Methods and Equipment to be Used for Seeding or Planting**

During the first spring following topsoil replacement the seed mix will be broadcast and harrowed. Reseeding will be done as needed to achieve grass cover sufficient to control erosion and to support pasture.

| Seeded Species | Pounds/Acre | Tree or Shrub Species | Stems/Acre |
|----------------|-------------|-----------------------|------------|
| Orchardgrass   | 15          |                       |            |
| Fescue         | 15          |                       |            |

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Attach Additional Sheets For Additional Seed Mixes

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|   |  |                         |
|---|--|-------------------------|
| <b>B. Grading</b>   |  | Site 04                 |
| Describe Proposed Reclaimed Topography, Including Slopes  |  |                         |
| <p>All spoil areas will be graded to slopes of 3:1.</p> <p>As the active pit approaches a property line, appropriate permanent barriers to limit trespass will be constructed. These barriers will range from a 4-wire barbwire fence to a large berm with a non-traversable outer slope. If the berm is constructed the drawing included with this plan will be followed with necessary modifications due to topography. All berms will be covered with topsoil or the best available material. The outer slope will be vegetated or covered with material that will not erode.</p> <p>The decision as to the type of barriers constructed will be based on the circumstances that exist at the time the highwall approaches closer than 300 feet to the property line and advice from legal and liability insurance professionals retained by the company.</p> <p>All perimeter barriers will be permanent.</p> |  |                         |
| <b>C. Describe The General Sequence and Timing of the Following Activities</b>  |  |                         |
| Grading   |  |                         |
| Grading will be done as the pit advances and as spoil is placed in the mined out portions. Final grading will be completed within one year of permit expiration on all mined-out portions.  |  |                         |
| Replacement of Topsoil  |  |                         |
| Topsoil will be replaced to a uniform depth of 12 inches, and disked to reduce compaction. Topsoil will be replaced within one year of permit expiration on all mined-out portions.   |  |                         |
| Revegetation  |  |                         |
| All topsoil areas will be seeded during the first optimum seeding period following topsoil replacement.   |  |                         |
| Average Depth of Replaced Topsoil (Inches)  |  |                         |
| Three inches topsoil plus nine inches of subsoil for a total of twelve inches.  |  |                         |
| <b>D. Use of Land When Reclaimed</b>  |  | <b>Estimated Acres:</b> |
| Estimated acreage of each land use below, after reclamation   |  |                         |
| Wildlife (forest or other habitat with livestock excluded)  |  |                         |
| Agriculture (pasture, cropland, and horticultural)  |  | 80                      |
| Development (residential, industrial, and recreational)   |  |                         |
| Water Impoundments (for wildlife, agricultural, or development)   |  |                         |

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## By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Section 444.760 through 444.789, RSMo, and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

ETS

WILL MAINTAIN 3 FT OF WOVEN WIRE  
ON BOTTOM PLUS 2 STRAND 11 POINT  
BARB WIRE ON TOP TO TOTAL HEIGHT  
OF 4 FT MINIMUM  
OR

COMPLY WITH ENCLOSED DRAWING  
#10 CSR-40-10 050 (S)(B) 5 & MSHA  
REQUIRED CFR 56.3131

|  |  |                                 |                               |
|--|--|---------------------------------|-------------------------------|
| Signature of Applicant<br><i>E. J. Stute</i>                                   |  | Title<br><i>President</i>       | Date<br><i>1-20-01</i>        |
| Notary Public Embosser Seal  |  | State<br><i>Missouri</i>        | County (Or City of St. Louis) |
| Subscribed and Sworn Before me, This<br><i>10th</i> Day Of <i>January</i> 2000 |  | Use Rubber Stamp Below          |                               |
| Notary Public Signature<br><i>Betty Lowallen</i>                               |  | My Commission Expires           |                               |
| Notary Public Name (Typed or Printed)<br><i>Betty Lowallen</i>                 |  | COMMISSIONED                    |                               |
| Approved By (Director's Representative)<br><i>[Signature]</i>                  |  | Date Approved<br><i>4-24-01</i> | Permit Number<br><i>0493</i>  |

MO 780-1327 (12-91)

Site #4

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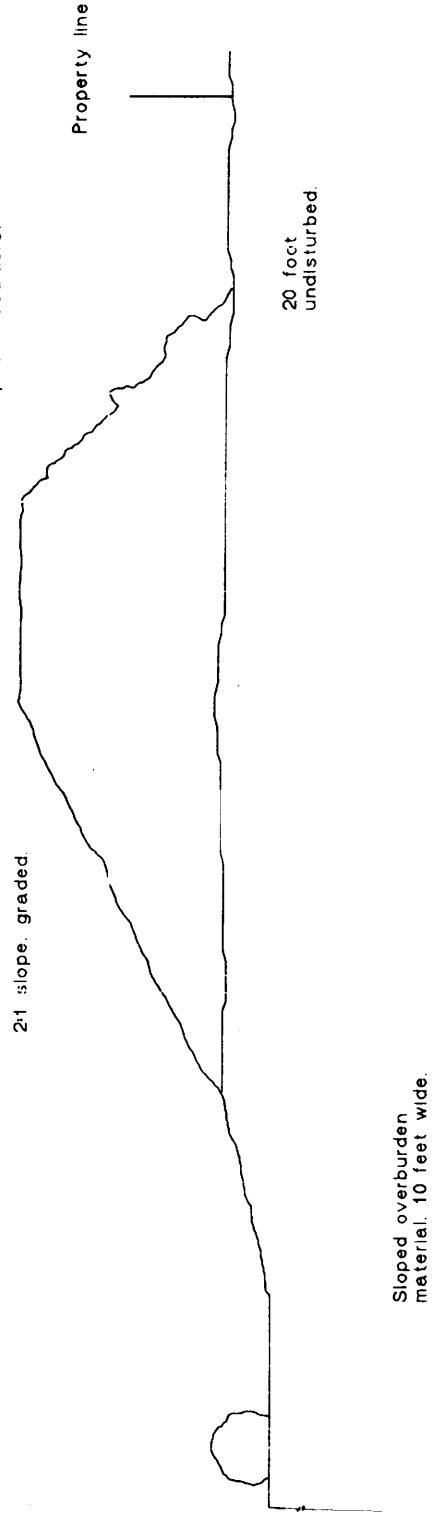
MAR 19 2001

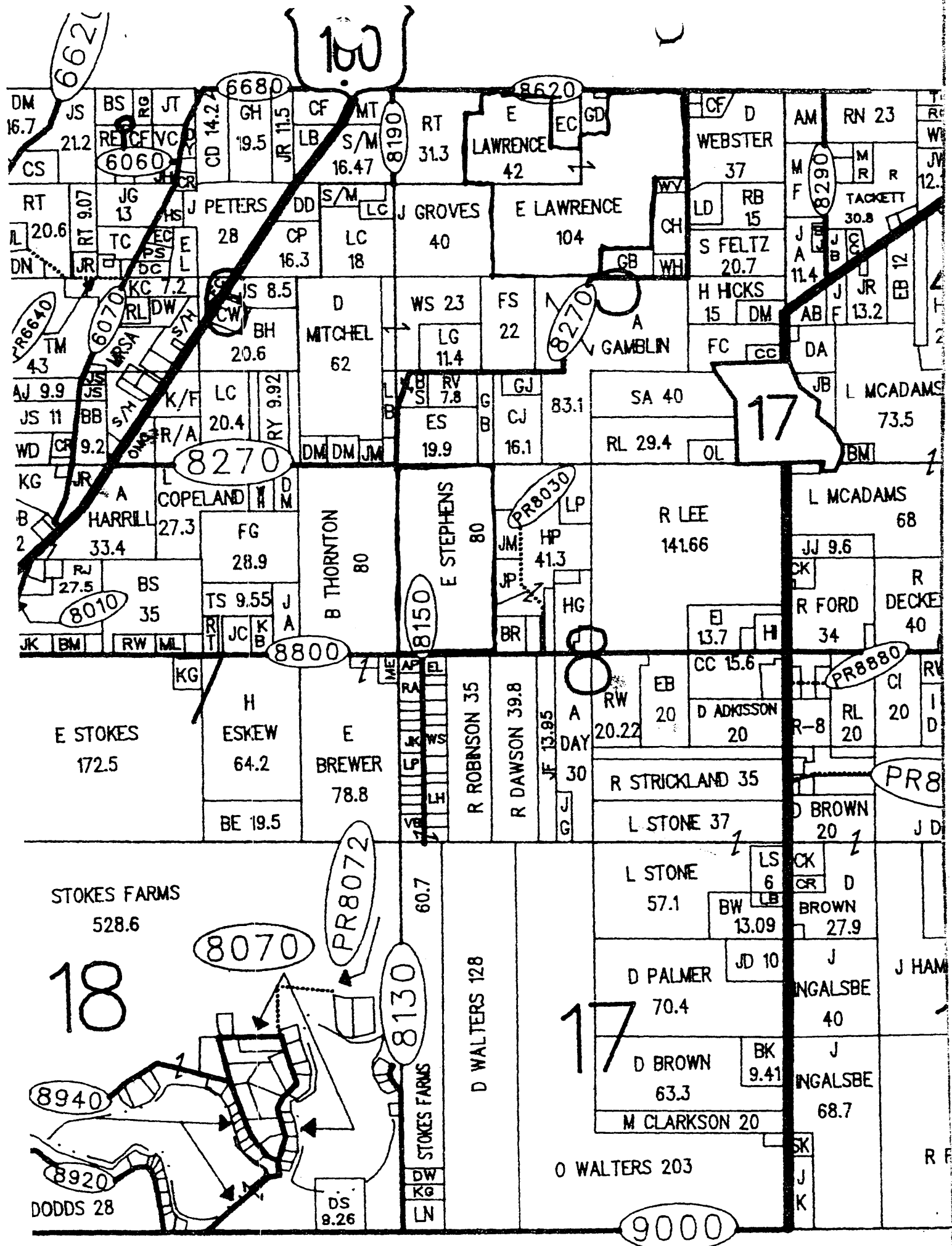
U.S. COURTS

# Type drawing of perimeter berm.

To limit trespass and promote safety.  
Total width of perimeter control, 80 feet.  
10 CSR 40-10.050(B)5

MSHA required: 30 CFR 56.3131  
"loose or unconsolidated material shall be sloped to the angle of repose or stripped back at least 10 feet from the top of the pit or quarry wall."  
Row of 2 to 3 foot diameter boulders.





# Moark Quarries, Inc.

W1/2 NW1/4 Sec08 T23N R08W

Howell County

Site #4

*Reclamation: 100% agriculture*

Long Term Plan

Bonded Area

Stripped

Active Pit

Topsoil Stockpile

SCALE

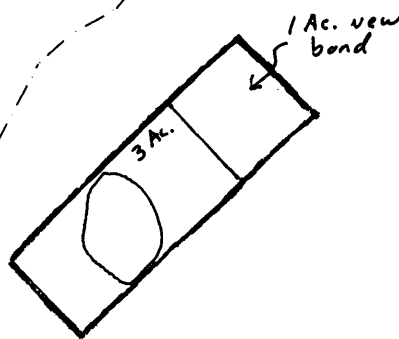
500 Feet

Entire 80 acres in long term plan.

Map modification 01/2001 by R. Crawley

8270

Eva Stephens  
80 Acres



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N

# Moark Quarries, Inc.

W1/2 NW1/4 Sec08 T23N R08W

Howell County

Site #4

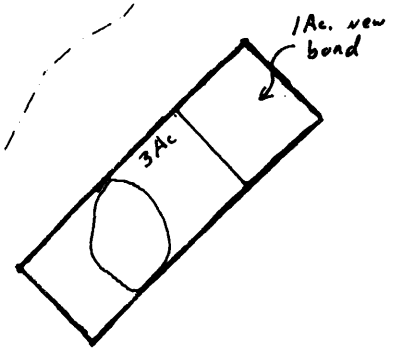
Reclamation: 100% agriculture

- Long Term Plan
  - Bonded Area
  - Stripped
  - Active Pit
  - Topsoil Stockpile
- SCALE  
500 Feet

Entire 80 acres in long term plan.  
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